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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,665	07/15/2003	Sung-Jae Moon	YOM-0038	7173
75	590 07/26/20	5	EXAMINER	
DAVID A. FOX			DUDEK, JAMES A	
55 Griffin Sout Bloomfield, C			ART UNIT	PAPER NUMBER
Biooinneid, C	1 00002		2871	
			DATE MAILED: 07/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

	Application No.	Applicant(s)	
Office Action Summany	10/619,665	MOON, SUNG-JAE	•
Office Action Summary	Examiner	Art Unit	
	James A. Dudek	2871	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period who Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on	<u>.</u> .		
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.		
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-13 is/are pending in the application.			
4a) Of the above claim(s) 13 is/are withdrawn fr	om consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-12</u> is/are rejected.			
7) Claim(s) is/are objected to.			
Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the E	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcti		•	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1.⊠ Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents		on No	
3.☐ Copies of the certified copies of the prior	• •		
application from the International Bureau	·	-	
* See the attached detailed Office action for a list	of the certified copies not receive	d.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te atent Application (PTO-152)	
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 2002/0085169 A1 ("169").

Per claim 1, 169 teaches the liquid crystal display comprising: a liquid crystal panel including a plurality of first display signal lines [G1-Gn], a plurality of second display signal lines crossing the first display signal lines [D1-Dn], a plurality of switching elements connected to the first display signal lines and the second display signal lines [11], a plurality of pixel electrodes connected to the switching elements [11], and at least one inspection line for transmission of test signals to the second display signal lines [see lines couples the gate and data lines and are connected to pads 15a, 15b, 17a,17b], wherein the at least one inspection line is separated from the first and second display signal lines, the switching elements, and the pixel electrodes [see figure for the gap between these element], the at least one inspection line includes a test pad for receiving an externally applied test signal [15,17], and the test pad is formed at a position where an external device is attached to the liquid crystal panel [see paragraph 0009, signals are applied to the pads, what supplies the signal is the test equipment]. Lacking from 169 is a device connected to the driving signals test pads. However, it was well known to connect driving device for testing in order to turn the pixels on and off to test the TFT. Accordingly it would have been obvious to one of ordinary skill at the time of invention to combine the driving device to test the TFT with 169.

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Per claim 2, 169 teaches the liquid crystal display of claim 1, wherein the at least one inspection line comprises at least two inspection lines, and the second display signal lines are alternately connected to the at least two inspection lines [lines connected to 15a is one and 15b is the other].

Per claim 3, 169 teaches the liquid crystal display of claim 1, further comprising a plurality of drivers connected to the second display signal lines [see the conventional cell drivers in figures 1a-1c].

Per claim 4, 169 teaches the liquid crystal display of claim 3, further comprising a plurality of connecting lines interconnecting the drivers [see connecting lines not labeled but shown in the figures].

Per claim 5, 169 teaches the liquid crystal display of claim 4, wherein the connecting lines extend straight [see figures].

Per claim 6, 169 teaches the liquid crystal display of claim 4, wherein the test pad is closer to an edge of the liquid crystal panel than to the connecting lines.

Per claim 7, 169 teaches the liquid crystal display of claim 3, wherein the test pad is disposed between the driver and an edge of the liquid crystal panel [see the figures the pads are on the outer regions of the panel].

Per claim 8, 169 teaches the liquid crystal display of claim 3, wherein each of the drivers is formed as a chip [see paragraph 0006].

Per claim 9, 169 teaches the liquid crystal display of claim 1, further comprising a plurality of flexible printed circuit films attached to the liquid crystal panel, wherein the external devices are the flexible printed circuit films [see films 4].

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Per claim 10, 169 teaches the liquid crystal display of claim 1, wherein the at least inspection line and the second display signal line are electrically separated [the data and gate lines are separated and thus the inspection lines for 15a is separated electrically from the signal lines].

Per claim 11, 169 teaches the liquid crystal display of claim 10, further comprising a connecting member including the same layer as the pixel electrodes, wherein the connecting member is connected to at least one of the at least one inspection line and the second display signal line [the connection member is the lines extending perpendicularly from the inspection lines.]

Per claim 12, 169 teaches the liquid crystal display of claim 11, but lacks the at least one inspection line includes the same material as at least one of the first display signal lines, the second display signal lines, and the pixel electrodes. However, this was well known in order to decrease the manufacturing steps by form both lines at the same time. Accordingly it would have been obvious to one of ordinary skill at the time of invention to combine the method of forming multiple lines from the same material with 169.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Response to Arguments

Applicant's arguments with respect to claims 1-12 have been considered but are moot in

view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The

examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217/-9197 (toll-free).

Janles X. Dudek

Primary Examiner

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